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Datasheet for ABIN1380057 PLAUR ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	PLAUR
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	32-2000 pg/mL
Minimum Detection Limit:	32 pg/mL
Application:	ELISA

Product Details

Purpose:

The OmniKine? Human uPAR ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human uPAR concentrations within any experimental sample including cell lysates, serum and plasma. This particular immunoassay utilizes the quantitative technique of a "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope on Human uPAR while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non- specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a colorimetric reaction to ensure upon substrate addition. When the substrate TMB (3, 3', 5, 5'-Tetramethylbenzidine) is

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Product Details

	added, the reaction catalyzed by peroxidase yields a blue color that is representative of the antigen concentration. Upon sufficient color development, the reaction can be terminated through addition of Stop Solution (2 N Sulfuric Acid) where the color of the solution will turn yellow. The absorbance of each well can then be read by a spectrophotometer, allowing for generation of a standard curve and subsequent determination of protein concentration.
Brand:	OmniKine™
Sample Type:	Cell Lysate, Serum, Plasma
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	The Human uPAR ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human uPAR proteins.
Cross-Reactivity (Details):	The Human uPAR ELISA is capable of recognizing both recombinant and naturally produced Human uPAR proteins. The antigens listed below were tested and interfere at a concentration greater than 50 ng/mL but did not exhibit significant cross reactivity. Human: uPA The antigens listed below were tested and interfere at a concentration greater than 1.56 ng/mL but did not exhibit significant cross reactivity. Murine: uPAR
Characteristics:	The Human uPAR ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human uPAR proteins within the range of 32-2000 pg/mL.
Components:	 Microstrips Coated w / Capture Antibody: 12 x 8-Well Microstrips Protein Standard: Lyophilized (100 ng), Red container Biotinylated Detection Antibody: Lyophilized, Yellow container 400x Streptavidin-HRP: 30 µL, Blue container Wash Buffer (10x): 50 mL, Clear containter Assay Diluent: 50 mL, Clear container Ready-to-Use Substrate: 12 mL, Brown container Stop Solution: 12 mL, Clear container Adhesive Plate Sealers: 4 Sheets Technical Manual 1 Manual
Material not included:	The following materials and/or equipment are NOT provided in this kit but are necessary to successfully conduct the experiment: Microplate reader able to measure absorbance at 450 nm (with correction wavelength set to 540 nm or 570 nm) Micropipettes with capability of measuring volumes ranging from 1 µl to 1 mL Deionized or sterile water

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Target Details

Target:	PLAUR
Alternative Name:	uPAR (PLAUR Products)
Background:	UPar acts as a receptor for urokinase plasminogen activator. uPar plays a role in localizing and
	promoting plasmin formation. UPar mediates the proteolysis-independent signal transduction
	activation effects of U-PA. It is subject to negative-feedback regulation by U-PA which cleaves it
	into an inactive form. UPar is expressed in neurons of the rolandic area of the brain (at protein
	level). Moreover, the protein is monomeric and interacts with MRC2 and SRPX2 (via the
	UPAR/Ly6 domains). Source: Entrez Gene, Swiss-Prot
Pathways:	Inositol Metabolic Process

Application Details

Plate:	Pre-coated
Protocol:	This particular immunoassay utilizes the quantitative technique of a Sandwich Enzyme-Linked
	Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a sandwich
	format by the primary capture antibodies coated to each well-bottom and the secondary
	detection antibodies added subsequently by the investigator. The capture antibodies coated to
	the bottom of each well are specific for a particular epitope on the Human uPAR cytokine while
	the user-added detection antibodies bind to epitopes on the captured target protein. Amid each
	step of the procedure, a series of wash steps must be performed to ensure the elimination of
	non-specific binding between proteins to other proteins or to the solid phase. After incubation
	and sandwiching of the target antigen, a peroxidase enzyme is conjugated to the constant

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Application Details

	heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin
	interactions), allowing for a colorimetric reaction to ensue upon substrate addition. When the
	substrate TMB (3, 3', 5, 5'- Tetramethylbenzidine) is added, the reaction catalyzed by peroxidase
	yields a blue color that is representative of the antigen concentration. Upon sufficient color
	development, the reaction can be terminated through addition of Stop Solution (2 N Sulfuric
	Acid) where the color of the solution will turn yellow. The absorbance of each well can then be
	read by a spectrophotometer, allowing for generation of a standard curve and subsequent
	determination of protein concentration.
Sample Preparation:	If samples are to be used within 24 hours, aliquot and store at 4 °C. If samples are to be used
	over a long period of time, aliquot and store between -20 °C and -80 °C, depending on the
	duration of storage.
	Note: Samples containing a visible precipitate or pellet must be clarified prior to use in the
	assay.
	Caution: Avoid repeated freeze/thaw cycles to prevent loss of biological activity of proteins in
	experimental samples.
	 Cell Lysate and Supernatants: Remove large cell components via centrifugation and perform the assay. Cell lysates and supernatants require a dilution using Assay Diluent. A serial dilution may be performed to determine a suitable dilution factor for the sample. For future use of the sample, follow the sample storage guidelines stated above. Serum: Allow samples to clot in a serum separator tube (SST) for 30 minutes. After sufficient clotting, centrifuge at 1000 x g for 15 minutes and remove serum from SST in preparation for the assay. Serum samples require at least a 1:50 dilution using Assay Diluent. For future use of the sample, follow the storage guidelines above. Plasma: Use heparin, citrate or EDTA as an anticoagulant to gather plasma from original biological sample. After collection of the plasma, centrifuge for 15 minutes at 1000 x g. This step must be performed within 30 minutes of plasma collection. Plasma samples require at least a 1:50 dilution using Assay Diluent at least a 1:50 dilution using Assay Diluent at least a 1:50 dilution using Assay Diluent at least a 1:50 dilution within 30 minutes of plasma collection. Plasma samples require at least a 1:50 dilution using Assay Diluent at least a 1:50 dilution using Assay Diluent at least a 1:50 dilution using Assay Diluent. Afterwards, perform the assay or for future use of the sample, follow the storage guidelines at the assay or for future use of the sample, follow the storage guidelines stated above.
Assay Procedure:	Note: If possible, all incubation steps should be performed on an orbital shaker to equilibrate
	solutions when added to the microplate wells. Also, all provided solutions should be at ambient
	temperature prior to use.
	Note: Avoid adding solutions into wells at an angle, always keep pipette tip perpendicular to
	plate bottom.

Reconstitution of Provided Materials:

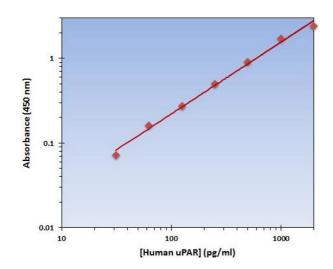
	1. Reconstitute the Biotin-Conjugated Detection Antibody in 67 μ L of ddHIO for a concentration of 180 μ g/ml.
	2. Reconstitute the Protein Standard in 100 μ L of ddH IO for a concentration of 340 ng/ml. 3. Dilute the 50 mL of 10x Wash Buffer in 450 mL of ddH20 for 500 mL of 1x Wash Buffer.
	Addition of Known Standard and Unknown Sample to Immunoassay:
	The OmniKine™ Human CD163 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human CD163 proteins
Calculation of Results:	Generation of Standard Curve and Interpretation of Data
	1. Average the duplicate or triplicate readings for each standard, control and sample and
	subtract the average zero standard optical density.
	2. Generate a standard curve by using Microsoft Excel or other computer software capable of
	establishing a 4- Parameter Logistic (4-PL) curve fit. If using Excel or an alternative graphing
	tool, plot the average optical density values in absorbance units (y-axis) against the known
	standard concentrations in pg/ml (x-axis). Note: Only use the values in which a noticeable
	gradient can be established. Afterwards, generate a best fit curve or trend-line through the
	5
	plotted points via regression analysis.
Restrictions:	
	plotted points via regression analysis.
Handling	plotted points via regression analysis.
Handling	plotted points via regression analysis. For Research Use only
Handling	plotted points via regression analysis. For Research Use only Reagents provided in this kit may be harmful if ingested, inhaled or absorbed through the skin.
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Handling	plotted points via regression analysis. For Research Use only Reagents provided in this kit may be harmful if ingested, inhaled or absorbed through the skin. Please carefully review the MSDS for each reagent before conducting the experiment. Stop Solution contains 2 N Sulfuric Acid (H2SO4) and is an extremely corrosive agent. Please
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Handling Precaution of Use:	plotted points via regression analysis. For Research Use only Reagents provided in this kit may be harmful if ingested, inhaled or absorbed through the skin. Please carefully review the MSDS for each reagent before conducting the experiment. Stop Solution contains 2 N Sulfuric Acid (H2SO4) and is an extremely corrosive agent. Please wear proper eye, hand and face protection when handling this material. When the experiment is finished, be sure to rinse the plate with copious amounts of running water to dilute the Stop Solution prior to disposing the plate. This ELISA kit is intended for research purposes only, NOT diagnostic or clinical procedures of
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Handling Precaution of Use:	plotted points via regression analysis. For Research Use only Reagents provided in this kit may be harmful if ingested, inhaled or absorbed through the skin. Please carefully review the MSDS for each reagent before conducting the experiment. Stop Solution contains 2 N Sulfuric Acid (H2SO4) and is an extremely corrosive agent. Please wear proper eye, hand and face protection when handling this material. When the experiment is finished, be sure to rinse the plate with copious amounts of running water to dilute the Stop Solution prior to disposing the plate. This ELISA kit is intended for research purposes only, NOT diagnostic or clinical procedures of any kind. Materials included in this kit should NOT be used past the expiration date on the kit label. Reagents or substrates included in this kit should NOT be mixed or substituted with reagents or
Handling Precaution of Use:	plotted points via regression analysis. For Research Use only Reagents provided in this kit may be harmful if ingested, inhaled or absorbed through the skin. Please carefully review the MSDS for each reagent before conducting the experiment. Stop Solution contains 2 N Sulfuric Acid (H2SO4) and is an extremely corrosive agent. Please wear proper eye, hand and face protection when handling this material. When the experiment is finished, be sure to rinse the plate with copious amounts of running water to dilute the Stop Solution prior to disposing the plate. This ELISA kit is intended for research purposes only, NOT diagnostic or clinical procedures of any kind. Materials included in this kit should NOT be used past the expiration date on the kit label. Reagents or substrates included in this kit should NOT be mixed or substituted with reagents or substrates from any other kits.
Restrictions: Handling Precaution of Use: Handling Advice:	plotted points via regression analysis. For Research Use only Reagents provided in this kit may be harmful if ingested, inhaled or absorbed through the skin. Please carefully review the MSDS for each reagent before conducting the experiment. Stop Solution contains 2 N Sulfuric Acid (H2SO4) and is an extremely corrosive agent. Please wear proper eye, hand and face protection when handling this material. When the experiment is finished, be sure to rinse the plate with copious amounts of running water to dilute the Stop Solution prior to disposing the plate. This ELISA kit is intended for research purposes only, NOT diagnostic or clinical procedures of any kind. Materials included in this kit should NOT be used past the expiration date on the kit label. Reagents or substrates included in this kit should NOT be mixed or substituted with reagents or substrates from any other kits. Variations in pipetting technique, washing technique, operator laboratory technique, kit age,

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Reagents provided in this kit may be harmful if ingested, inhaled or absorbed through the skin. Please carefully review the MSDS for each reagent before conducting the experiment. Stop Solution contains 2 N Sulfuric Acid (H2SO4) and is an extremely corrosive agent. Please wear proper eye, hand and face protection when handling this material. When the experiment is finished, be sure to rinse the plate with copious amounts of running water to dilute the Stop Solution prior to disposing the plate.

Storage:	4 °C
•	Note: If used frequently, reagents may be stored at 4 °C.
	• Unopened Kits: Store at 4 °C for 6 months.
	 Microstrips Coated w/ Capture Antibody, 400x Streptavidin-HRP Wash Buffer (10x), Assay
	Diluent Ready-to-Use Substrate, Stop Solution: 6 Months at 4 °C
	Protein Standard, Biotinylated Detection Antibody: Lyophilized: 6 Months (if Reconstituted: 1

Images



Month) at 4 °C

ELISA

Image 1. This is an example of what a typical standard curve will look like. You must make your own standard curve. Do not use this example as your own standard curve.

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